DPM 5535-1

Prepared:

January 10, 1986

U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration

Form Approved OMB No. 44-R1387

AA9112

MATERIAL SAFETY DATA SHEET

Z0004 /

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I	
MANUFACTURER'S NAME & Industrial Products Division	EMERGENCY TELEPHONE NO.
- Luc nerreringnoration	(A15) 607 A201
ADDRESS (Number, Street, City, State, and Zif Code) 2850 Willow Pass Road, P.O. Box 312, Pittsburg, CA	94565
FROM Docin Adhania	RADE NAME AND SYNONYMS
CHEMICAL FAMILY	EA 956 Part A
poxy (Mixture	Maria da Cara da Cara da Cara de Cara

Epoxy		FORMULA (Mixture)	
SECTION II	- HAZAR	DOUS INGREDIENTS	
N.E.= Not Established	(Units) 0 N.E.	None of the ingredients contains this product constitutes a haze ingredient as defined by Federal in 29CFR 1910 nor is any ingredient and state on any state is hazardous substances list except the epoxilisted.	ardous al OSHA dient s
The epoxy resin listed above may susceptible individuals. It is	cause i	rritation and sensitization in	
List of Hazardous Substances nor potential carcinogen by/Cal/OSHA	is it l	isted as a carcinggen or	
EX OF CENTER OF		IYSICAL DATA	
OILING POINT (18) DEC2 5 1986 DEC	Omposes:	SPECIFIC GRAVITY (H ₂ O=1) PERCENT, VOLATILE	>1

BOILING POINT (SH DEC2 9 19		PHYSICAL DATA SPECIFIC GRAVITY (H2O=1)	
VACCE SEED - CONTRACTOR	Decomposes		31
VAPOR PRESSURE TIME HO DOCUPATION	4 / <mark>3/0.01mm</mark>	PERCENT, VOLATILE BY VOLUME (%)	20.00
VAPOR DENSITY (AIR-1)	X Nii	EVAPORATION RATE	<0.01
SOLUBILITY IN WATER TO THE	Nil	=11	Nil

FLASH POINT (Method used) Over 300°F (est.)	FLAMMABLE LIMITS Not measured	Lei	Uei
	The state of the s		
Ury chemical or Halon fire extingu	uisher. Or water coray &		
SPECIAL FIRE FIGHTING PROCEDURES	or water spray, I	vam or rog	
The state of the s			
Use self-contained breathing apparatus	whon fighti fi		

PAGE (1)

(Continued on reverse side)

Form OSHA-20

SECTION V - HEALTH HAZARD DATA
THRESHOLD LIMIT VALUE
THRESHOLD LIMIT VALUE Not established. See attached for additional health information.
May cause skin irritation and possible allergic reactions. Prolonged and repeated
¿
contact may cause sensitization which will result in allergic reactions.
Flush skin and eye contact with plenty of water. Wash skin thoroughly with soap
and water, rubbing alcohol or hand cleaner. Do not use solvents. Remove soiled
olothian and the control of the cont
clothing and wash before reuse. If irritation persists or increases, see physician

OF OF LOWER BOTTON					
			SECTION	VI - R	EACTIVITY DATA
STABILITY	UNS	TABLE		CONDITION	S TO AVOID
.e	STA		Х		
Strong oxidizing agents, strong Lewis or mineral acids.					
HAZARDOUS DECO	MPOSI	TION PRODUC			dehydes, acids and undetermined organics.
					conditions to Avoid
HAZARDOUS POLYMERIZATION	-	MAY OCCUR	·	X	Avoid mixing resin and curing agent in
		WILL NOT OCCUR			batches greater than one pound total.
Do not heat	mixe	d adhesiv	e above	75°F u	nless curing surfaces to be bonded
Otherwise, excessive heat build-up and the release of toxic gasses may occur.					
					OR LEAK PROCEDURES
STEPS TO BE TAKEN	IN C	ASE MATERIA	L IS RELEA	SED OR SE	PILLED
wear procecti	ve c	noching,	groves a	ing sate	ty glasses. Cover with absorbent
material, then Scrape up and transfer to metal container. Wipe up remaining					metal container. Wipe up remaining
residue with solvents, observing solvent flammability cautions, or use determent					
Dispose of as hazardous waste according to D.O.T. hazard class. If not regulated					o D.O.T. hazard class. If not regulated
by D.O.T., di	spos	e of as O	RM-E. D)isposal	method can be land burial or chemical
incineration	incineration as regulated by all governmental agencies.				

	CECTION	2050141.5		
	SECTION VIII	- SPECIAL P	ROTECTION IN	IFORMATION
RESPIRATORY PRO				
	——	Not require	d with good i	ndustrial ventilation.
VENTILATION	I LOCAL EXHAUST	,		SPECIAL
	Recommended			SPECIAL
	MECHANICAL (General)			OTHER
		Recommended	1	<u> </u>
PROTECTIVE GLOV	us plastic or rub		EYE PROTECTION	
Impervio	us plastic or rub	ber	Safe	ty alasses or appalor
OTHER PROTECTIV				ty glasses or goggles
	As need	ed to protec	ct skin and c	lothing
				100111119

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Keep product cool in accordance with label instructions.	
other precautions Follow recommended curing schedule.	

PAGE (2)

Form OSHA-20 Rev. May 72 Prepared:

U.S. DEPARTMENT OF LABOR

January 10, 1986

Occupational Safety and Health Administration

Form Approved OMB No. 44-R1387

AB9112

MATERIAL SAFETY DATA SHEET

20790

Required under USDL Safety and Health Regulations for Ship Repairing,

Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I	
MANUFACTURER'S NAME & Industrial Products Division The Dexter Corporation	EMERGENCY TELEPHONE NO. (415) 687-4201
ADDRESS (Number, Street, City, State, and Zif Code) 2850 Willow Pass Road, P.O. Box 312, Pittsburg, C	
liwo-rait Aikyidhine tured EDOXV Resin Adhesive I	TRADE NAME AND SYNONYMS EA 956 Part B
CHEMICAL FAMILY FORMULA Alkylamine (Mixtur	

SECTION	11 -	HAZAR	DOUS INGREDIENTS	
Diethylenetriamine	%	TLV (Units)	None of the ingredients contained in this product constitutes a hazardous	
(CAS# 111400)	k 13	lppm(s)	ingredient as defined by Federal OSHA	
Non-Hazardous Materials		emainder	in 29CFR 1910 nor is any ingredient r) listed on any state's hazardous	
			substances list except Diethylenetria- mine.	
Diethylenetriamine is on the Ca				
Substances but is not a carcino	ogen	or pot	ential carcinogen per OSHA,	
Cal/OSHA, IARC or NTP. The TL				

	SECTION III -	PHYSICAL DATA	
BOILING POINT (°F.)	405°F	SPECIFIC GRAVITY (H20=1)	0.951
VAPOR PRESSURE (mm Hg.)	0.37mm	PERCENT, VOLATILE BY VOLUME (%)	Low
VAPOR DENSITY (AIR=1)	3.48	EVAPORATION RATE	Low
SOLUBILITY IN WATER	100%	Note: Above data for Diethy	/lenetriamine

Amber Liquid with Ammoniacal Odor.

SECTION IV - FIRE AND	EXPLOSION HAZARD DAT	Α	
FLASH POINT (Method used) Over 300°F (est.)	Not measured	Lei	Uel
Dry chemical or Halon fire extinguis	···	oam or fog.	
Use self-contained breathing apparatus who unusual fire and explosion hazards	en fighting fires in co	onfined are	as.
Dense smoke and toxic gasses may be liber	ated.		

PAGE (1)

(Continued on reverse side)

Form OSHA-20

SECTION V - HEALTH HAZARD DATA

Corrosive to skin and eyes. Can cause chemical burns to skin and severe chemical burns to eyes. Vapors irritating and may cause chest discomfort and bronchitis symptoms. Moderately toxic by ingestion. Give water or milk if swallowed, do not induce vomiting. Get medical help. Skin contact - flush with water. Then wash thourghly with soap and water. Eye contact - flush with water immediately 15 minutes and get medical help.

Please see attached sheet for additional health information.

		art.	SECTIO	NVI - F	REACTIVITY DATA	
STABILITY		TABLE		CONDITIONS TO AVOID		
	STA	STABLE		-		
INCOMPATABIL	ITY (Male	rials to avoid)	Strong	oxidiz	ing agents, strong Lewis or mineral acids.	
HAZARDOUS DE	COMPOS	TION PRODUC	co,	NOx, a	Idehydes, acids and undetermined organics.	
HAZARDOUS POLYMERIZATION		MAY OCCUR		Х	Avoid mixing resin and curing agent in	
		WILL NOT O			batches greater than one pound total. Do	
not heat mi observe cau	ixed ad utions	lhesive abo may resul	ove 75 t in ex	°F unle cessive	ess curing surfaces to be bonded. Failure to heat build-up with the realease of toxic ga	
		SECTI	ON VII	- SPILL	OR LEAK PROCEDURES	
STEPS TO BE TA Wear prote	ctive (ase materia clothing,	dioves	EASED OR and saf	fety glasses. Cover with absorbent	

Steps to be taken in case material is released or spilled Wear protective clothing, gloves and safety glasses. Cover with absorbent material, then | Scrape up and transfer to metal container. Wipe up remaining residue with solvents, observing solvent flammability cautions, or use detergent. WASTE DISPOSAL METHOD DISPOSAL METHOD DISPOSAL METHOD DISPOSAL METHOD DISPOSAL OF as hazardous waste according to D.O.T. hazard class. If not regulated by D.O.T., dispose of as ORM-E. Disposal method can be land burial or chemical incineration as regulated by all governmental agencies.

	SECTION VIII - SPECIAL	PROTECTION INFORMATION
RESPIRATORY P	ROTECTION (Specify type) Not requir	ed with good industrial ventilation.
VENTILATION	Recommended	SPECIAL
	MECHANICAL (General) Recommend	OTHER
PROTECTIVE GL	oves ious plastic or rubber	Safety glasses or goggles
OTHER PROTECT	IVE FOLLOMENT	ect skin and clothing

SECTION IX - SPECIAL PRECAUTIONS							
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING							
Keep product cool in accordance with label instructions.							
other precautions Follow recommended curing schedule.							

PAGE (2)

Form OSHA-20 Rev. May 72

HEALTH EFFECTS AND SAFE HANDLING OF HYSOL TWO PART ALKYLAMINE CURED EPOXY RESIN SYSTEMS

EA 956 Parts A & B

Epoxy Resin (Part A)

The ingredients in this product are of low toxicity by ingestion. However, it is very important to avoid all skin contact. Prolonged or repeated skin contact will cause irritation and will also cause sensitization and other adverse health effects in susceptible persons. Eye contact will cause eye irritation. Inhalation studies of this product are limited because there is an insignificant level of vapors given off. Inhalation of dust from sanding or grinding the cured adhesive can lead to exposure and possible health effects due to irritation from the particulates. If dust is generated, the use of local exhaust ventilation or an approved dust mask is required. Users of this product must protect their hands with latex or rubber gloves, their eyes with suitable eye protection, and their clothing with aprons or coveralls. Wash with soap and water before breaks, lunch, and at the end of work. Do not take soiled clothing home.

Z0004/6

Eyes: Wash eyes promptly with plenty of water for at least 15 minutes.

Skin: Remove excessively contaminated clothing and wash contaminated areas of the skin with soap and water or waterless skin cleanser.

Inhalation: Vapors from this material should not represent a problem.

Ingestion: This should not represent a problem. However, if swallowed,

induce vomiting if patient is conscious.

Alklamine Curing Agent (Part B)

The curing agent used in this product is a caustic alkaline material that should be treated as a corrosive. This curing agent is relatively non-toxic by ingestion. Skin or eye contact may cause moderate irritation or burns. Repeated skin contact may also cause sensitization in susceptible persons. This product produces very little vapor under normal circumstances. However, when used at elevated temperatures or in confined areas, inhalation of vapors may cause throat irritation. High concentrations of vapors will result in respiratory irritation, cough, nausea and vomiting. There are no reported chronic toxicity effects from exposure to the ingredients in this product, but repeated or prolonged skin contact will cause skin rashes and chemical burns. Users of this product must protect their hands with latex or rubber gloves and their eyes with suitable eye protection.

Emergency and First Aid Procedures

Eyes: If even small amounts of this product enter the eyes, they should be irrigated immediately with large amounts of water for a minimum of 15 minutes. Seek medical attention to assess the nature and extent of the injury.

Skin: Wash skin contact immediately and copious amounts of soap and water. If extensive skin contact has occurred, use an emergency shower to flush skin with large amounts of running water together with soap and water washing for at least 15 minutes. Remove all contaminated clothing and shoes.

Inhalation: Remove patient to an uncontaminated atmosphere and seek medical attention.

Ingestion: Immediately drink large amounts of water or milk. Seek medical attention immediately.